

Data Validation Checklist
Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Karen Marie Trujillo
 Concurrence²: Nicole Lancaster / Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-87545-2
 Associated Samples: Refer to Attachment A (Sample Summary)
 Samples Collected: 02/14/2013
 Date: 03/08/2013
 Date: 03/28/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (\leq 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; \leq 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.		✓			
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 021213-RB-Shovel (680-87747-31).	

¹ All analytical work subcontracted to TestAmerica of Tampa, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.		✓		According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 021213-RB-Shovel (680-87747-31) was collected during the week of 02/11/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-87747-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> • FM0161M-CSD (680-87545-23) is the field duplicate of FM0161M-CS (680-87545-22) • FM0161U-CSD (680-87545-32) is the field duplicate of FM0161U-CS (680-87545-31) 	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> • Instrument ID: BSMA5973 • Initial Calibration: 02/22/2013 • ICV: 02/22/13 @ 12:48 • CCV: 02/25/13 @ 14:59 • Instrument ID: BSMC5973 • Initial Calibration: 02/22/2013 • ICV: 02/22/13 @ 14:06 • Instrument ID: BSMD5973 • Initial Calibration: 02/22/2013 • ICV: 02/22/13 @ 14:51 	
19. Were calibration results within laboratory/project specifications?		✓		<ul style="list-style-type: none"> • ICV of 02/22/13 @ 12:48, instrument BSMA5973: 2-Methylnaphthalene @ 22.1 %D (Lab: ≤35, Project: <20). Positive bias is indicated by the CCV 	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> • ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ◦ If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects ◦ If mean RRF < 0.050 (< 0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ◦ If %D > 20 ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects ◦ If RF < 0.050 (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 				<p>percent difference; therefore, J-flag results in associated samples³</p> <ul style="list-style-type: none"> • ICV of 02/22/13 @ 14:06, instrument BSMC5973: <ul style="list-style-type: none"> ◦ Chrysene @ -20.6 %D (Lab: ≤ 35, Project: ≤ 20) ◦ Benzo[a]pyrene @ -21.7 %D (Lab: ≤ 35, Project: ≤ 20). Positive bias is indicated by the CCV percent difference; therefore, J-flag detected results for chrysene and Benzo[a]pyrene in associated samples⁴. 	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R $>$ Upper Control Limit (UCL) and J/R-flag results when %R $<$ Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects		✓		LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> • Prep Batch 134730: 680-87545-34 (FM0161W-CS), MS/MSD • Prep Batch 134712: 680-87545-1 (CV0240A-CS), MS/MSD. Lab sample 680-87545-1 is a project-specific sample (CV0240A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-87545-1. 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> • If the native sample concentration $> 4x$ spiking level, then an evaluation of interference is not possible. 	✓				

³ 680-87545-23 through -28, -39, and -40⁴ 680-87545-21 and 680-87545-22

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results 					
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result 	✓				
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results 	✓				
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 					
29. Were lab comments included in report?	✓			Refer to Attachment C (Case Narrative)	
Comments: The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process (Attachment D). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
 R The sample results are unusable. The analyte may or may not be present in the sample.
 U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
 UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A
SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-2
 SDG: 68087545-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-87545-21	FM0161L-CS	Solid	02/14/13 09:48	02/16/13 09:03
680-87545-22	FM0161M-CS	Solid	02/14/13 09:55	02/16/13 09:03
680-87545-23	FM0161M-CSD	Solid	02/14/13 09:58	02/16/13 09:03
680-87545-24	FM0161N-CS	Solid	02/14/13 10:05	02/16/13 09:03
680-87545-25	FM0161O-CS	Solid	02/14/13 10:24	02/16/13 09:03
680-87545-26	FM0161P-CS	Solid	02/14/13 10:27	02/16/13 09:03
680-87545-27	FM0161Q-CS	Solid	02/14/13 10:31	02/16/13 09:03
680-87545-28	FM0161R-CS	Solid	02/14/13 10:35	02/16/13 09:03
680-87545-29	FM0161S-CS	Solid	02/14/13 10:45	02/16/13 09:03
680-87545-30	FM0161T-CS	Solid	02/14/13 10:49	02/16/13 09:03
680-87545-31	FM0161U-CS	Solid	02/14/13 12:52	02/16/13 09:03
680-87545-32	FM0161U-CSD	Solid	02/14/13 12:54	02/16/13 09:03
680-87545-33	FM0161V-CS	Solid	02/14/13 12:58	02/16/13 09:03
680-87545-34	FM0161W-CS	Solid	02/14/13 13:00	02/16/13 09:03
680-87545-35	FM0161X-CS	Solid	02/14/13 13:06	02/16/13 09:03
680-87545-36	FM0161Y-CS	Solid	02/14/13 13:10	02/16/13 09:03
680-87545-37	FM0161Z-CS	Solid	02/14/13 13:26	02/16/13 09:03
680-87545-38	FM0161AA-CS	Solid	02/14/13 13:25	02/16/13 09:03
680-87545-39	FM0161BB-CS	Solid	02/14/13 13:46	02/16/13 09:03
680-87545-40	FM0161CC-CS	Solid	02/14/13 13:56	02/16/13 09:03

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ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0161M-CS 680-87545-22		RL	FM0161M-CSD 680-87545-23		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action	
Acenaphthylene	12	J	41		9.5	J	41	µg/kg	205	NA	2.5	82	None, absolute difference ≤ 2x Avg RL
Anthracene	60		8.6		17		8.6	µg/kg	43	NA	43	17.2	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	240		8.2		72		8.2	µg/kg	41	108	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	210		11		56		11	µg/kg	55	116	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	290		12		78		12	µg/kg	60	115	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	120		20		50		20	µg/kg	100	NA	70	40	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(k)fluoranthene	170		8.2		38		8.2	µg/kg	41	NA	132	16.4	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	250		9.2		81		9.2	µg/kg	46	102	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	40		20		17	J	20	µg/kg	100	NA	23	40	None, absolute difference ≤ 2x Avg RL
Fluoranthene	460		20		93		20	µg/kg	100	NA	367	40	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene	19	J	20		7.4	J	20	µg/kg	100	NA	11.6	40	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	110		20		40		20	µg/kg	100	NA	70	40	J/UJ-flag, absolute difference > 2x Avg RL
1-Methylnaphthalene	51		41		25	J	41	µg/kg	205	NA	26	82	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	48		41		36	J	41	µg/kg	205	NA	12	82	None, absolute difference ≤ 2x Avg RL
Naphthalene	58		41		41		41	µg/kg	205	NA	17	82	None, absolute difference ≤ 2x Avg RL
Phenanthrene	270		8.2		68		8.2	µg/kg	41	120	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	430		20		82		20	µg/kg	100	NA	348	40	J/UJ-flag, absolute difference > 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0161U-CS 680-87545-31		RL	FM0161U-CSD 680-87545-32		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action	
Acenaphthylene	7.6	J	41		11	J	42	µg/kg	207.5	NA	3.4	83	None, absolute difference ≤ 2x Avg RL
Anthracene	10		8.7		21		8.7	µg/kg	43.5	NA	11	17.4	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	43		8.3		84		8.3	µg/kg	41.5	65	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	38		11		71		11	µg/kg	55	NA	33	22	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	71		13		130		13	µg/kg	65	59	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	38		21		58		21	µg/kg	105	NA	20	42	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	23		8.3		44		8.3	µg/kg	41.5	NA	21	16.6	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	62		9.3		110		9.4	µg/kg	46.75	56	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	11	J	21		19	J	21	µg/kg	105	NA	8	42	None, absolute difference ≤ 2x Avg RL
Fluoranthene	69		21		150		21	µg/kg	105	NA	81	42	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene			21		7.4	J	21	µg/kg	105	NA	7.4	42	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	30		21		53		21	µg/kg	105	NA	23	42	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	31	J	41		48		42	µg/kg	207.5	NA	17	83	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	40	J	41		60		42	µg/kg	207.5	NA	20	83	None, absolute difference ≤ 2x Avg RL
Naphthalene	44		41		68		42	µg/kg	207.5	NA	24	83	None, absolute difference ≤ 2x Avg RL
Phenanthrene	58		8.3		120		8.3	µg/kg	41.5	70	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	54		21		110		21	µg/kg	105	NA	56	42	J/UJ-flag, absolute difference > 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C

CASE NARRATIVE

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-2
SDG: 68087545-2

Job ID: 680-87545-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87545-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.4° C.

SEMOVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0161L-CS (680-87545-21), FM0161M-CS (680-87545-22), FM0161M-CSD (680-87545-23), FM0161N-CS (680-87545-24), FM0161O-CS (680-87545-25), FM0161P-CS (680-87545-26), FM0161Q-CS (680-87545-27), FM0161R-CS (680-87545-28), FM0161S-CS (680-87545-29), FM0161T-CS (680-87545-30), FM0161U-CS (680-87545-31), FM0161U-CSD (680-87545-32), FM0161V-CS (680-87545-33), FM0161W-CS (680-87545-34), FM0161X-CS (680-87545-35), FM0161Y-CS (680-87545-36), FM0161Z-CS (680-87545-37), FM0161AA-CS (680-87545-38), FM0161BB-CS (680-87545-39) and FM0161CC-CS (680-87545-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/21/2013 and analyzed on 02/22/2013 and 02/25/2013.

Samples FM0161V-CS (680-87545-33)[4X], FM0161W-CS (680-87545-34)[4X], FM0161X-CS (680-87545-35)[4X] and FM0161Y-CS (680-87545-36)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Benzo[a]anthracene, Benzo[b]fluoranthene, Fluoranthene and Pyrene recovered outside the recovery criteria for the MS of sample 680-87545-1 in batch 660-134776.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-2
 SDG: 68087545-2

Client Sample ID: FM0161L-CS

Date Collected: 02/14/13 09:48
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-21

Matrix: Solid
 Percent Solids: 99.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Acenaphthylene	7.8	J	40	5.0	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Anthracene	10		8.4	4.2	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Benzo[a]anthracene	64		8.0	3.9	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Benzo[a]pyrene	58	J	10	5.2	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Benzo[b]fluoranthene	110		12	6.1	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Benzo[g,h,i]perylene	40		20	4.4	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Benzo[k]fluoranthene	27		8.0	3.6	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Chrysene	77	J	9.0	4.5	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Dibenz(a,h)anthracene	11	J	20	4.1	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Fluoranthene	99		20	4.0	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Fluorene	8.0	J	20	4.1	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Indeno[1,2,3-cd]pyrene	33		20	7.1	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
1-Methylnaphthalene	44		40	4.4	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
2-Methylnaphthalene	60		40	7.1	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Naphthalene	60		40	4.4	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Phenanthrene	73		8.0	3.9	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Pyrene	86		20	3.7	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	89		30 - 130				02/21/13 12:14	02/22/13 19:19	1

Client Sample ID: FM0161M-CS

Date Collected: 02/14/13 09:55
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-22

Matrix: Solid
 Percent Solids: 97.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Acenaphthylene	12	J	41	5.1	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Anthracene	60	J	8.6	4.3	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Benzo[a]anthracene	240	J	8.2	4.0	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Benzo[a]pyrene	210	J	11	5.3	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Benzo[b]fluoranthene	290	J	12	6.2	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Benzo[g,h,i]perylene	120	J	20	4.5	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Benzo[k]fluoranthene	170	J	8.2	3.7	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Chrysene	250	J	9.2	4.6	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Dibenz(a,h)anthracene	40		20	4.2	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Fluoranthene	460	J	20	4.1	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Fluorene	19	J	20	4.2	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Indeno[1,2,3-cd]pyrene	110	J	20	7.2	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
1-Methylnaphthalene	51		41	4.5	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
2-Methylnaphthalene	48		41	7.2	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Naphthalene	58		41	4.5	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Phenanthrene	270	J	8.2	4.0	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Pyrene	430	J	20	3.8	ug/Kg	⊗	02/21/13 12:14	02/22/13 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	91		30 - 130				02/21/13 12:14	02/22/13 19:38	1

TestAmerica Savannah

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 Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-2
SDG: 68087545-2

Client Sample ID: FM0161M-CSD

Date Collected: 02/14/13 09:58

Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-23

Matrix: Solid

Percent Solids: 97.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Acenaphthylene	9.5	J	41	5.1	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Anthracene	17	J	8.6	4.3	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Benzo[a]anthracene	72	J	8.2	4.0	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Benzo[a]pyrene	56	J	11	5.3	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Benzo[b]fluoranthene	78	J	12	6.2	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Benzo[g,h,i]perylene	50	J	20	4.5	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Benzo[k]fluoranthene	38	J	8.2	3.7	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Chrysene	81	J	9.2	4.6	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Dibenz(a,h)anthracene	17	J	20	4.2	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Fluoranthene	93	J	20	4.1	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Fluorene	7.4	J	20	4.2	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Indeno[1,2,3-cd]pyrene	40	J	20	7.2	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
1-Methylnaphthalene	25	J	41	4.5	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
2-Methylnaphthalene	36	J	41	7.2	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Naphthalene	41		41	4.5	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Phenanthrene	68	J	8.2	4.0	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Pyrene	82	J	20	3.8	ug/Kg	⌘	02/21/13 12:14	02/25/13 17:00	1
Surrogate									
<i>o-Terphenyl</i>	57		Limits				Prepared	Analyzed	Dil Fac
			30 - 130				02/21/13 12:14	02/25/13 17:00	1

Client Sample ID: FM0161N-CS

Lab Sample ID: 680-87545-24

Date Collected: 02/14/13 10:05

Date Received: 02/16/13 09:03

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Acenaphthylene	13	J	40	5.1	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Anthracene	20		8.5	4.2	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Benzo[a]anthracene	77		8.1	3.9	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Benzo[a]pyrene	38		11	5.3	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Benzo[b]fluoranthene	90		12	6.2	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Benzo[g,h,i]perylene	38		20	4.4	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Benzo[k]fluoranthene	31		8.1	3.6	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Chrysene	100		9.1	4.5	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Dibenz(a,h)anthracene	10	J	20	4.1	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Fluoranthene	220		20	4.0	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Fluorene	4.9	J	20	4.1	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Indeno[1,2,3-cd]pyrene	34		20	7.2	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
1-Methylnaphthalene	21	J	40	4.4	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
2-Methylnaphthalene	25	✗ J	40	7.2	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Naphthalene	26	J	40	4.4	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Phenanthrene	60		8.1	3.9	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Pyrene	170		20	3.7	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	55		30 - 130				02/21/13 12:14	02/25/13 17:15	1

sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012).

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-2
 SDG: 68087545-2

Client Sample ID: FM0161O-CS

Date Collected: 02/14/13 10:24
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-25

Matrix: Solid
 Percent Solids: 92.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	21	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Acenaphthylene	42	U	42	5.3	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Anthracene	10		8.9	4.4	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Benzo[a]anthracene	35		8.5	4.1	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Benzo[a]pyrene	26		11	5.5	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Benzo[b]fluoranthene	46		13	6.5	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Benzo[g,h,i]perylene	28		21	4.7	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Benzo[k]fluoranthene	15		8.5	3.8	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Chrysene	54		9.5	4.8	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Dibenz(a,h)anthracene	11 J		21	4.3	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Fluoranthene	48		21	4.2	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Fluorene	6.6 J		21	4.3	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Indeno[1,2,3-cd]pyrene	25		21	7.5	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
1-Methylnaphthalene	23 J		42	4.7	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
2-Methylnaphthalene	28 J		42	7.5	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Naphthalene	27 J		42	4.7	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Phenanthrene	52		8.5	4.1	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Pyrene	42		21	3.9	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:30	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		60			30 - 130		02/21/13 12:14	02/25/13 17:30	1

Client Sample ID: FM0161P-CS

Date Collected: 02/14/13 10:27
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-26

Matrix: Solid
 Percent Solids: 94.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	21	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Acenaphthylene	8.8 J		43	5.3	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Anthracene	17		9.0	4.5	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Benzo[a]anthracene	60		8.5	4.2	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Benzo[a]pyrene	54		11	5.6	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Benzo[b]fluoranthene	90		13	6.5	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Benzo[g,h,i]perylene	55		21	4.7	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Benzo[k]fluoranthene	23		8.5	3.8	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Chrysene	91		9.6	4.8	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Dibenz(a,h)anthracene	20 J		21	4.4	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Fluoranthene	85		21	4.3	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Fluorene	6.3 J		21	4.4	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Indeno[1,2,3-cd]pyrene	36		21	7.6	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
1-Methylnaphthalene	47		43	4.7	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
2-Methylnaphthalene	60 J		43	7.6	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Naphthalene	57		43	4.7	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Phenanthrene	86		8.5	4.2	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Pyrene	70		21	4.0	ug/Kg	⊗	02/21/13 12:14	02/25/13 17:45	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		77			30 - 130		02/21/13 12:14	02/25/13 17:45	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-2
SDG: 68087545-2

Client Sample ID: FM0161Q-CS

Date Collected: 02/14/13 10:31

Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-27

Matrix: Solid

Percent Solids: 99.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Acenaphthylene	13	J	40	5.0	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Anthracene	23		8.4	4.2	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Benzo[a]anthracene	70		8.0	3.9	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Benzo[a]pyrene	51		10	5.2	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Benzo[b]fluoranthene	80		12	6.1	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Benzo[g,h,i]perylene	48		20	4.4	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Benzo[k]fluoranthene	30		8.0	3.6	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Chrysene	79		9.0	4.5	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Dibenz(a,h)anthracene	18	J	20	4.1	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Fluoranthene	88		20	4.0	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Fluorene	8.4	J	20	4.1	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Indeno[1,2,3-cd]pyrene	41		20	7.1	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
1-Methylnaphthalene	41		40	4.4	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
2-Methylnaphthalene	54	J	40	7.1	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Naphthalene	51		40	4.4	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Phenanthrene	80		8.0	3.9	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Pyrene	79		20	3.7	ug/Kg	⌘	02/21/13 12:14	02/25/13 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	78		30 - 130				02/21/13 12:14	02/25/13 18:00	1

Client Sample ID: FM0161R-CS

Date Collected: 02/14/13 10:35

Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-28

Matrix: Solid

Percent Solids: 94.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	21	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Acenaphthylene	43	U	43	5.3	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Anthracene	9.3		9.0	4.5	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Benzo[a]anthracene	44		8.5	4.2	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Benzo[a]pyrene	26		11	5.5	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Benzo[b]fluoranthene	44		13	6.5	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Benzo[g,h,i]perylene	22		21	4.7	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Benzo[k]fluoranthene	13		8.5	3.8	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Chrysene	40		9.6	4.8	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Dibenz(a,h)anthracene	11 J		21	4.4	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Fluoranthene	48		21	4.3	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Fluorene	21	U	21	4.4	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Indeno[1,2,3-cd]pyrene	18 J		21	7.6	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
1-Methylnaphthalene	25 J		43	4.7	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
2-Methylnaphthalene	37 J		43	7.6	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Naphthalene	40 J		43	4.7	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Phenanthrene	48		8.5	4.2	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Pyrene	37		21	3.9	ug/Kg	⊗	02/21/13 12:14	02/25/13 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	62		30 - 130				02/21/13 12:14	02/25/13 18:15	1

sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012).

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-2
 SDG: 68087545-2

Client Sample ID: FM0161S-CS

Date Collected: 02/14/13 10:45
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-29

Matrix: Solid
 Percent Solids: 97.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Acenaphthylene	9.7	J	41	5.1	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Anthracene	16		8.6	4.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Benzo[a]anthracene	57		8.2	4.0	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Benzo[a]pyrene	11	U	11	5.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Benzo[b]fluoranthene	95		12	6.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Benzo[g,h,i]perylene	43		20	4.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Benzo[k]fluoranthene	8.2	U	8.2	3.7	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Chrysene	97		9.2	4.6	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Dibenz(a,h)anthracene	16	J	20	4.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Fluoranthene	120		20	4.1	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Fluorene	8.5	J	20	4.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Indeno[1,2,3-cd]pyrene	37		20	7.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
1-Methylnaphthalene	53		41	4.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
2-Methylnaphthalene	70		41	7.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Naphthalene	97		41	4.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Phenanthrene	96		8.2	4.0	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Pyrene	84		20	3.8	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:21	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		79		30 - 130			02/21/13 16:21	02/22/13 16:21	1

Client Sample ID: FM0161T-CS

Date Collected: 02/14/13 10:49
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-30

Matrix: Solid
 Percent Solids: 98.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Acenaphthylene	6.9	J	41	5.1	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Anthracene	31		8.6	4.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Benzo[a]anthracene	120		8.2	4.0	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Benzo[a]pyrene	91		11	5.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Benzo[b]fluoranthene	160		12	6.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Benzo[g,h,i]perylene	70		20	4.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Benzo[k]fluoranthene	48		8.2	3.7	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Chrysene	140		9.2	4.6	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Dibenz(a,h)anthracene	26		20	4.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Fluoranthene	190		20	4.1	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Fluorene	13	J	20	4.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Indeno[1,2,3-cd]pyrene	64		20	7.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
1-Methylnaphthalene	56		41	4.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
2-Methylnaphthalene	69		41	7.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Naphthalene	130		41	4.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Phenanthrene	170		8.2	4.0	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Pyrene	140		20	3.8	ug/Kg	⊗	02/21/13 16:21	02/22/13 16:44	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		74		30 - 130			02/21/13 16:21	02/22/13 16:44	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-2
 SDG: 68087545-2

Client Sample ID: FM0161U-CS

Date Collected: 02/14/13 12:52
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-31

Matrix: Solid
 Percent Solids: 96.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Acenaphthylene	7.6	J	41	5.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Anthracene	10		8.7	4.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Benzo[a]anthracene	43	J	8.3	4.0	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Benzo[a]pyrene	38	J	11	5.4	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Benzo[b]fluoranthene	71	J	13	6.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Benzo[g,h,i]perylene	38		21	4.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Benzo[k]fluoranthene	23	J	8.3	3.7	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Chrysene	62	J	9.3	4.6	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Dibenz(a,h)anthracene	11	J	21	4.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Fluoranthene	69	J	21	4.1	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Fluorene	21	U	21	4.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Indeno[1,2,3-cd]pyrene	30		21	7.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
1-Methylnaphthalene	31	J	41	4.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
2-Methylnaphthalene	40	J	41	7.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Naphthalene	44		41	4.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Phenanthrene	58	J	8.3	4.0	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Pyrene	54	J	21	3.8	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:19	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	62		30 - 130				02/21/13 16:21	02/22/13 17:19	1

Client Sample ID: FM0161U-CSD

Date Collected: 02/14/13 12:54
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-32

Matrix: Solid
 Percent Solids: 94.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Acenaphthylene	11	J	42	5.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Anthracene	21		8.7	4.4	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Benzo[a]anthracene	84	J	8.3	4.1	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Benzo[a]pyrene	71	J	11	5.4	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Benzo[b]fluoranthene	130	J	13	6.4	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Benzo[g,h,i]perylene	58		21	4.6	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Benzo[k]fluoranthene	44	J	8.3	3.7	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Chrysene	110	J	9.4	4.7	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Dibenz(a,h)anthracene	19	J	21	4.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Fluoranthene	150	J	21	4.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Fluorene	7.4	J	21	4.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Indeno[1,2,3-cd]pyrene	53		21	7.4	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
1-Methylnaphthalene	48		42	4.6	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
2-Methylnaphthalene	60		42	7.4	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Naphthalene	68		42	4.6	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Phenanthrene	120	J	8.3	4.1	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Pyrene	110	J	21	3.9	ug/Kg	⊗	02/21/13 16:21	02/22/13 17:42	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	71		30 - 130				02/21/13 16:21	02/22/13 17:42	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-2
SDG: 68087545-2

Client Sample ID: FM0161V-CS

Date Collected: 02/14/13 12:58

Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-33

Matrix: Solid

Percent Solids: 97.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	400	U	400	80	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Acenaphthylene	160	U	160	20	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Anthracene	24	J	33	17	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Benzo[a]anthracene	100		32	16	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Benzo[a]pyrene	90		41	21	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Benzo[b]fluoranthene	160		49	24	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Benzo[g,h,i]perylene	83		80	18	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Benzo[k]fluoranthene	52		32	14	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Chrysene	150		36	18	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Dibenz(a,h)anthracene	30	J	80	16	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Fluoranthene	190		80	16	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Fluorene	80	U	80	16	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Indeno[1,2,3-cd]pyrene	69	J	80	28	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
1-Methylnaphthalene	64	J	160	18	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
2-Methylnaphthalene	81	J	160	28	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Naphthalene	84	J	160	18	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Phenanthrene	160		32	16	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Pyrene	150		80	15	ug/Kg	✉	02/21/13 16:21	02/22/13 18:04	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	86		30 - 130				02/21/13 16:21	02/22/13 18:04	4

Client Sample ID: FM0161W-CS

Lab Sample ID: 680-87545-34

Date Collected: 02/14/13 13:00

Date Received: 02/16/13 09:03

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyst	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	420	U	420	83	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Acenaphthylene	22	J	170	21	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Anthracene	36		35	17	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Benzo[a]anthracene	110		33	16	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Benzo[a]pyrene	89		43	22	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Benzo[b]fluoranthene	190		51	25	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Benzo[g,h,i]perylene	83		83	18	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Benzo[k]fluoranthene	54		33	15	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Chrysene	190		37	19	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Dibenz(a,h)anthracene	27	J	83	17	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Fluoranthene	160		83	17	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Fluorene	83	U	83	17	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Indeno[1,2,3-cd]pyrene	70	J	83	30	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
1-Methylnaphthalene	78	J	170	18	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
2-Methylnaphthalene	93	J	170	30	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Naphthalene	110	J	170	18	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Phenanthrene	150		33	16	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Pyrene	140		83	15	ug/Kg	✉	02/21/13 16:21	02/22/13 18:27	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	97		30 - 130				02/21/13 16:21	02/22/13 18:27	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-2
 SDG: 68087545-2

Client Sample ID: FM0161X-CS

Date Collected: 02/14/13 13:06
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-35

Matrix: Solid
 Percent Solids: 93.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	430	U	430	85	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Acenaphthylene	170	U	170	21	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Anthracene	40		36	18	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Benzo[a]anthracene	160		34	17	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Benzo[a]pyrene	130		44	22	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Benzo[b]fluoranthene	240		52	26	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Benzo[g,h,i]perylene	97		85	19	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Benzo[k]fluoranthene	66		34	15	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Chrysene	200		38	19	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Dibenz(a,h)anthracene	37	J	85	18	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Fluoranthene	240		85	17	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Fluorene	23	J	85	18	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Indeno[1,2,3-cd]pyrene	89		85	30	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
1-Methylnaphthalene	84	J	170	19	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
2-Methylnaphthalene	110	J	170	30	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Naphthalene	130	J	170	19	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Phenanthrene	220		34	17	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Pyrene	180		85	16	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:34	4
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		97		30 - 130			02/21/13 16:21	02/22/13 19:34	4

Client Sample ID: FM0161Y-CS

Date Collected: 02/14/13 13:10
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-36

Matrix: Solid
 Percent Solids: 74.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Acenaphthylene	27	J	210	27	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Anthracene	54		45	22	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Benzo[a]anthracene	210		42	21	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Benzo[a]pyrene	150		55	28	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Benzo[b]fluoranthene	300		65	32	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Benzo[g,h,i]perylene	130		110	23	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Benzo[k]fluoranthene	77		42	19	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Chrysene	330		48	24	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Dibenz(a,h)anthracene	56	J	110	22	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Fluoranthene	300		110	21	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Fluorene	42	J	110	22	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Indeno[1,2,3-cd]pyrene	110		110	38	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
1-Methylnaphthalene	290		210	23	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
2-Methylnaphthalene	340		210	38	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Naphthalene	350		210	23	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Phenanthrene	440		42	21	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Pyrene	220		110	20	ug/Kg	⊗	02/21/13 16:21	02/22/13 19:57	4
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		89		30 - 130			02/21/13 16:21	02/22/13 19:57	4

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-2
 SDG: 68087545-2

Client Sample ID: FM0161Z-CS

Date Collected: 02/14/13 13:26
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-37

Matrix: Solid
 Percent Solids: 74.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Acenaphthylene	25	J	54	6.7	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Anthracene	40		11	5.6	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Benzo[a]anthracene	150		11	5.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Benzo[a]pyrene	140		14	7.0	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Benzo[b]fluoranthene	250		16	8.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Benzo[g,h,i]perylene	94		27	5.9	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Benzo[k]fluoranthene	87		11	4.8	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Chrysene	220		12	6.0	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Dibenz(a,h)anthracene	35		27	5.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Fluoranthene	260		27	5.4	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Fluorene	20	J	27	5.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Indeno[1,2,3-cd]pyrene	89		27	9.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
1-Methylnaphthalene	110		54	5.9	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
2-Methylnaphthalene	140		54	9.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Naphthalene	140		54	5.9	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Phenanthrene	210		11	5.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Pyrene	210		27	5.0	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:19	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		82			30 - 130		02/21/13 16:21	02/22/13 20:19	1

Client Sample ID: FM0161AA-CS

Date Collected: 02/14/13 13:25
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-38

Matrix: Solid
 Percent Solids: 71.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Acenaphthylene	47	J	56	7.0	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Anthracene	61		12	5.9	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Benzo[a]anthracene	260		11	5.4	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Benzo[a]pyrene	240		14	7.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Benzo[b]fluoranthene	400		17	8.5	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Benzo[g,h,i]perylene	160		28	6.1	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Benzo[k]fluoranthene	140		11	5.0	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Chrysene	310		13	6.3	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Dibenz(a,h)anthracene	55		28	5.7	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Fluoranthene	430		28	5.6	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Fluorene	18	J	28	5.7	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Indeno[1,2,3-cd]pyrene	160		28	9.9	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
1-Methylnaphthalene	150		56	6.1	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
2-Methylnaphthalene	190		56	9.9	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Naphthalene	180		56	6.1	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Phenanthrene	260		11	5.4	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Pyrene	360		28	5.2	ug/Kg	⊗	02/21/13 16:21	02/22/13 20:42	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		95			30 - 130		02/21/13 16:21	02/22/13 20:42	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-2
 SDG: 68087545-2

Client Sample ID: FM0161BB-CS

Date Collected: 02/14/13 13:46
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-39

Matrix: Solid
 Percent Solids: 73.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Acenaphthylene	26	J	54	6.8	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Anthracene	33		11	5.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Benzo[a]anthracene	130		11	5.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Benzo[a]pyrene	95		14	7.1	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Benzo[b]fluoranthene	150		17	8.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Benzo[g,h,i]perylene	110		27	6.0	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Benzo[k]fluoranthene	65		11	4.9	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Chrysene	170		12	6.1	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Dibenz(a,h)anthracene	34		27	5.6	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Fluoranthene	130		27	5.4	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Fluorene	14	J	27	5.6	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Indeno[1,2,3-cd]pyrene	99		27	9.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
1-Methylnaphthalene	75		54	6.0	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
2-Methylnaphthalene	88	J	54	9.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Naphthalene	92		54	6.0	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Phenanthrene	180		11	5.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Pyrene	170		27	5.0	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:44	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		65		30 - 130			02/21/13 16:21	02/25/13 15:44	1

Client Sample ID: FM0161CC-CS

Date Collected: 02/14/13 13:56
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-40

Matrix: Solid
 Percent Solids: 98.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Acenaphthylene	25	J	40	5.1	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Anthracene	40		8.5	4.2	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Benzo[a]anthracene	110		8.1	3.9	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Benzo[a]pyrene	80		11	5.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Benzo[b]fluoranthene	160		12	6.2	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Benzo[g,h,i]perylene	82		20	4.4	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Benzo[k]fluoranthene	45		8.1	3.6	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Chrysene	140		9.1	4.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Dibenz(a,h)anthracene	39		20	4.1	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Fluoranthene	93		20	4.0	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Fluorene	15	J	20	4.1	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Indeno[1,2,3-cd]pyrene	78		20	7.2	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
1-Methylnaphthalene	59		40	4.4	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
2-Methylnaphthalene	76	J	40	7.2	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Naphthalene	68		40	4.4	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Phenanthrene	120		8.1	3.9	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Pyrene	150		20	3.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 15:59	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		64		30 - 130			02/21/13 16:21	02/25/13 15:59	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)